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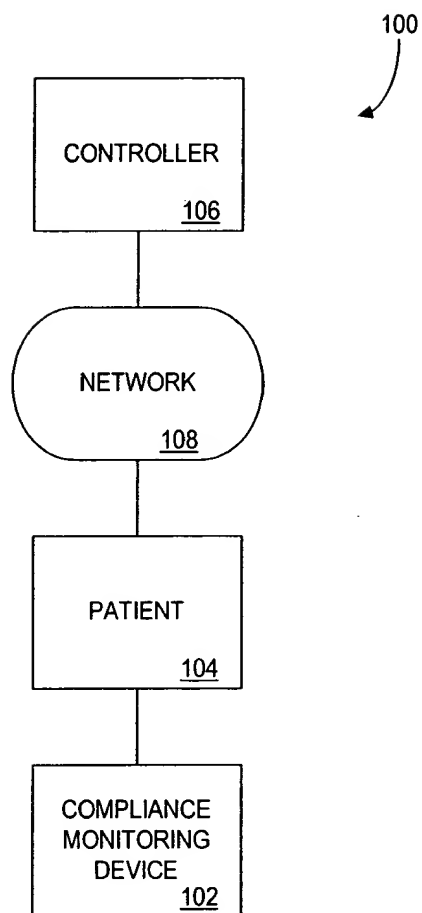


FIG. 1A

Diagram illustrating a smart pill bottle system 100. The system includes three smart pill bottles 110, 112, and 114, each with a base 102a, 102b, and 102c respectively. Each bottle has a display 118 showing a message: "DO NOT TAKE!" for 114, "2 PILLS WITH LUNCH" for 112, and "I'M EMPTY!" for 110. Each bottle also has a unique ID: R-208-119 C-521-0811 for 110, R-315-239 C-295-149 for 112, and R-198-342 C-152-906 for 114. The bottles are connected to a central hub 120, which is connected to a network 108 and a controller 106. A user 104 is shown interacting with the system.

4

FIG. 1D

FIG. 1E

106

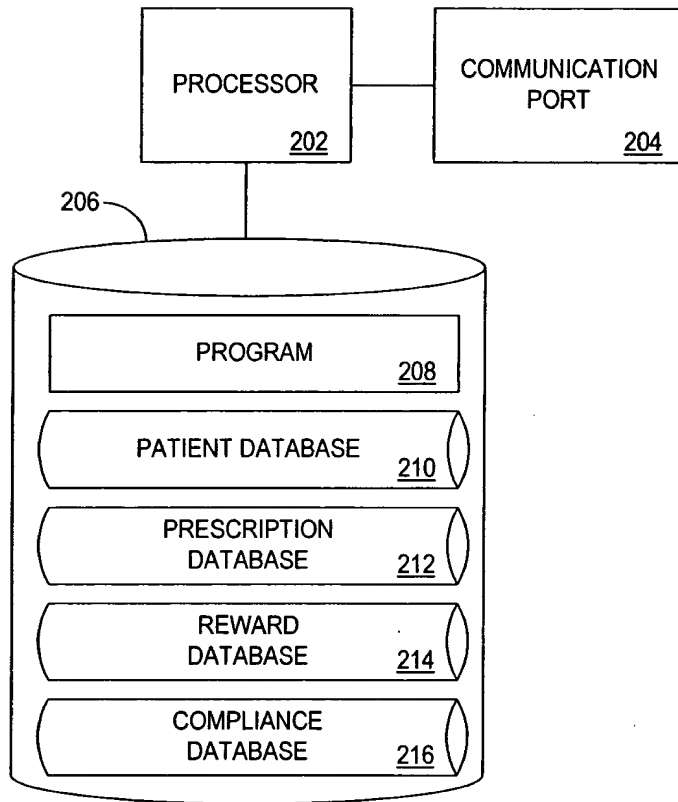


FIG. 2

210

PATIENT ID	NAME	ADDRESS	TELEPHONE NUMBER	PHYSICIAN	REWARD PROGRAM
P-123-45-6789	JANE DOE	115 MAIN ST. SPRINGFIELD, USA	(203) 325-0895	BENJAMIN SPOCK	YES
P-111-22-3333	JACK FROST	21 JUMP ST. NOWHERE, USA	(415) 925-9331	ROBERT LIVINGSTONE	NO
P-321-12-3443	SAM SPADE	13 ELM ST. GOTHAM, USA	(501) 629-0888	ELIZABETH BLACKWELL	YES

302

304

306

FIG. 3



FIG. 4

216

FIG. 6

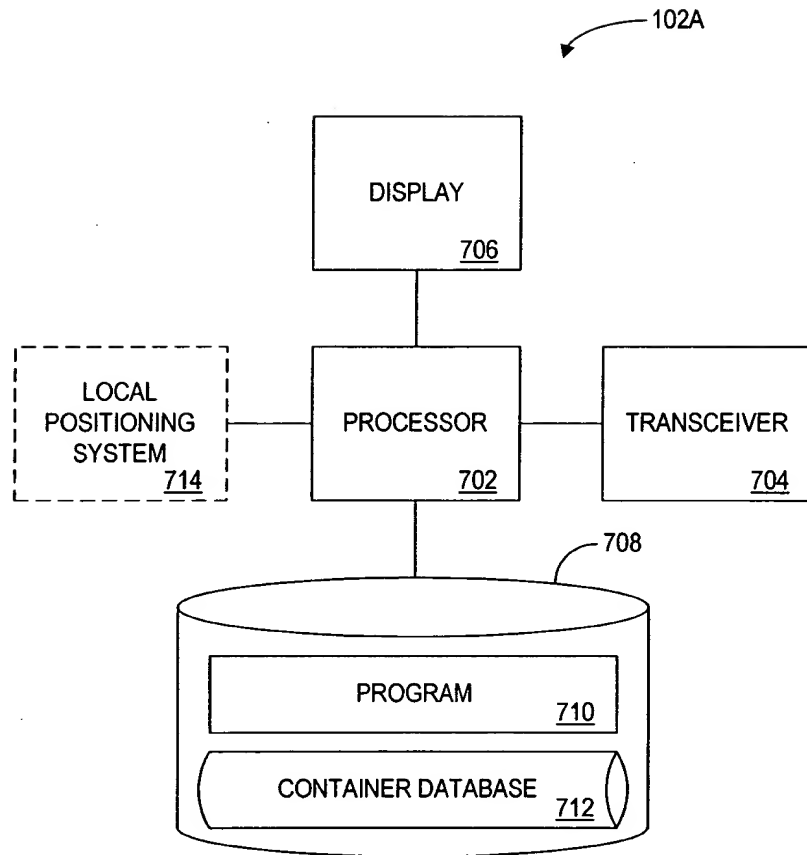


FIG. 7A

102BC

MEDICATION CONTAINER 102a

MEDICATION CONTAINER 110

MEDICATION CONTAINER 112

MEDICATION CONTAINER 114

DISPLAY 706

PROCESSOR 702

TRANSCEIVER 704

PROGRAM 710

CONTAINER DATABASE 712

FIG. 7B

712a

812 814 816 818 820 822 824 826

F/G. 8

```
graph TD; 902[902] --> 904[904]; 904 --> 906[906]; 906 --> 908[908]; 908 --> 910[910];
```

900

OBTAIN AT LEAST TWO MEDICINE CONTAINERS CAPABLE OF WIRELESSLY COMMUNICATING WITH EACH OTHER, EACH HAVING A MEDICINE STORED THEREIN 902

↓

PROVIDE INFORMATION REGARDING THE AT LEAST TWO MEDICINES TO THE CONTROLLER 904

↓

MONITOR THE PROXIMITY OF THE AT LEAST TWO MEDICINE CONTAINERS 906

↓

PROVIDE INDICATOR OF LEVEL OF COMPLIANCE TO CONTROLLER 908

↓

REWARD PATIENT BASED ON THE INDICATOR OF LEVEL OF COMPLIANCE 910

FIG. 9

```

graph TD
    1002[COLLECT COMPLIANCE DATA  
1002] --> 1004[STORE COMPLIANCE DATA  
IN CONTAINER DATABASE  
1004]
    1004 --> 1006{DOES COMPLIANCE DATA  
NEED TO BE  
OUTPUTTED?  
1006}
    1006 -- NO --> 1002
    1006 -- YES --> 1008[RETRIEVE COMPLIANCE DATA  
1008]
    1008 --> 1010[ENCRYPT COMPLIANCE DATA  
1010]
    1010 --> 1012[OUTPUT RESULTING CODE  
1012]
  
```

FIG. 10

```
graph TD; 1102[COLLECT PROXIMITY INFORMATION  
1102] --> 1104[STORE PROXIMITY INFORMATION  
IN CONTAINER DATABASE  
1104]; 1104 --> 1106{DOES PROXIMITY  
INFORMATION NEED TO BE  
OUTPUTTED?  
1106}; 1106 -- NO --> 1102; 1106 -- YES --> 1108[RETRIEVE PROXIMITY INFORMATION  
1108]; 1108 --> 1110[ENCRYPT PROXIMITY INFORMATION  
1110]; 1110 --> 1112[OUTPUT RESULTING CODE  
1112];
```

FIG. 11

1300

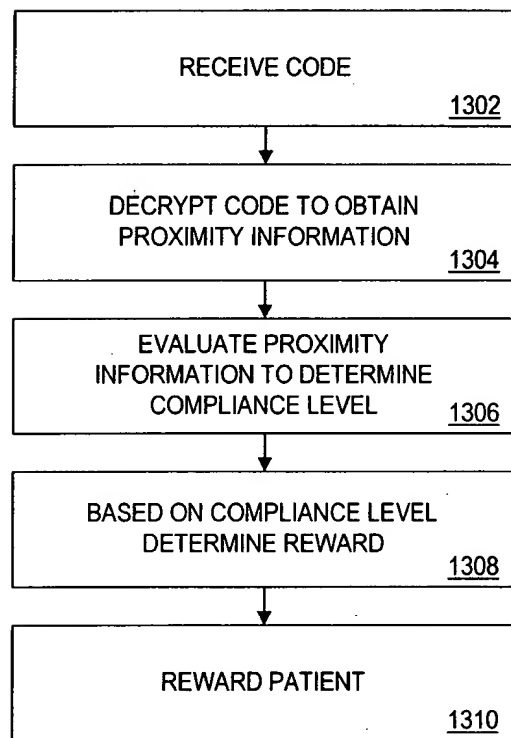


FIG. 13